NCC LIMITED

WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

Agregate Impact Value
IS: 2386 Part IV

lient	Bruhath Bengalure Mahanagara Palike,
gency	NCC Limited
ame of Work	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
ocation	Chandra cotc To Vishnu park, - Lft & Rtg (Ch 0 To 450
ype of Mix	Wet Mix Macadam
ate of Testing	18/4/2021

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample fillinbg the cylindrical measure = W_1 g	382	378	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	89	78	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	289	302	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.02	23.54	20.52	21.75 %

Remarks:

: Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Yelahanka Zone
BBMP, Bangalore

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of Work	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Wet Mix Macadam
Date of Testing	22/4/2024
Location	Chandra Cafe To Vishnupark - LHS + RHS Ch: 0 To 450

Result : Flakiness Index = 11.35 %

Elongation Index = 9.33 %

Result : Combined Flakiness & Elongation index = 20.68 %

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30 %

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

Agregate Impact Value
IS: 2386 Part IV

lient	Bruhath Bengalure Mahanagara Palike.			
gency	NCC Limited			
ame of Work	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION			
ocation	Chandra Cafe To Vishnupark – LHS & RHS			
ype of Mix	Wet Mix Macadam			
ate of Testing	22/4/2021			

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample fillinbg the cylindrical measure = W_1 g	372	374	370	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	80	78	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	290	294	292	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.04	21.39	21.08	21.50

Remarks:

: Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

BITUMEN EXTRACTION TEST REPORT

Location : Chandra Cafe To Kanti sweets DATE : 2/4/2021

MATERIAL : BITUMINOUS MACADAM (BM) Ch: 0 To 800

Sl.No	DISCRIPTION	UNIT	sample -1	sample -2	sample -3	Remarks
1	Weight of Mixture before test (Bowl+bitumien) =A	gms	500	500	500	
2	Weight of Mixture after test (Bowl+bitumien)= B	gms	481	482	482.60	
3	Weight of bitumin Extracted ,gm (A-B)/A*100= B	gms	19	18	17.40	
4	Bitumen content in %		3.80%	3.60%	3.48%	
	Average		3.62%			

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

BITUMEN EXTRACTION TEST REPORT

Location : Chandra Cafe To Kanti Sweets Ch: 0 To 900

MATERIAL : BITUMINOUS MACADAM (BM)

DATE : 2/4/2021

Sl.No	DISCRIPTION	UNIT	sample -1	sample -2	sample -3	Remarks
1	Weight of Mixture before test (Bowl+bitumien) =A	gms	500	500	500	
2	Weight of Mixture after test (Bowl+bitumien)= B	gms	481.5	480	482.3	
3	Weight of bitumin Extracted ,gm (A-B)/A*100= B	gms				
4	Bitumen content in %		3.7%	4.0%	3.54%	
	Average		3.74%			

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

Aggregate Gradation Test
IS : 2386 Part I

Client	Bruhath Bengaluru Mahanagara Palike,
Agency	NCC Limited
Name of Work	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
Refrence	IS : 2386 Part I
Location	Chandra Cafe To Kanti Sweets, Ch'g 0 To 200
Type of Mix	Bituminous Macadam
Date of Testing	29/3/2021

Total Weight of Sample: 1296 gms

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
26.50	0	0	0	100	100	Gradation satisfies Grade II MORTH specification
19.00	604	4.65	4.65	95.35	90 - 100	
13.20	4521	34.87	39.52	60.48	56 - 88	
4.75	5162	39.81	79.33	20.67	16 - 36	
2.36	764	5.89	85.22	14.74	4 - 19	
0.300	980	7.55	92.77	7.23	2 - 10	
0.075	313	2.41	95.18	4.82	0 - 8	

Total Weight of Sample: 9045 gms

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
26.50	0	0	0	100	100	Gradation satisfies Grade II MORTH specification
19.00	310	3.42	3.42	96.55	90 - 100	
13.20	3181	35.16	38.58	61.42	56 - 88	
4.75	3187	35.23	73.81	26.19	16 - 36	
2.36	984	10.87	84.69	15.30	4 - 19	
0.300	587	6.48	91.17	8.83	2 - 10	
0.075	304	3.36	94.53	5.47	0 - 8	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

Specific Gravity And Water Absorption Test

IS: 2386 Part III

Client	Bruhath Bengaluru Mahanagara Palike.
Agency	NCC Limited
Name of Wok	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
Location	Chandra Cafe To Kanti Sweets Ch 0 To 300
Type of Mix	Bituminous Macadam
Date of Testing	29/3/2021

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2016	2024	2022	
2	Weight of basket suspended in water	W_2 g	750	750	750	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1260	1272	1264	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2014	2017	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	740	745	744	
6	Weight of oven dried aggregate	W_4 g	2004	2006	2008	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.65	2.70	2.66	2.67%.
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.69	2.73	2.69	2.70%.
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.59	0.39	0.44	0.47%.

Comments:

Maximum allowable Aggregate Water absorption value for Bituminous Macadam is 2.0%

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX

IS 2386(Part 1)

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of Work	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Bituminous Macadam
Date of Testing	29/3/2024
Location	chandra cafe To Kanti Sweets

Result : Flakiness Index = 11.80 %. Ch 0 To 800

Elongation Index = 10.50 %.

Result : Combined Flakiness & Elongation index = 22.30 %.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Macadam is 35%

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

Client	:	**Bruhath Bengaluru Mahanagara Palike.**
Name of Work	:	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
Location	:	Chandra Cafe To Kanti Sweets
Source of location	:	Plant Ch: 0 To 800
Date of testing	:	29/3/2024

The results of the tests conducted on the bitumen sample using for Bituminous Macadam

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	64	60 to 70
2	Softening point, ^{0}C	45	Min. 40
3	Ductility at 27^{0}C, cm	100>	Min. 75
4	Flash Point, ^{0}C	242	Min. 220

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WHITE TOPPING VELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO ABUSIA BAKERY JUNCTION
BANGALORE CITY

Aggregate Impact Value
IS 2386 Part IV

	Bruhath Bengalure Mahanagara Palike.
Work	WHITE TOPPING VELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO ABUSIA BAKERY JUNCTION
	Chandra Cafe To Kanthi Sweets
Mix	Bituminous Macadam Ch) 0 To 300
Testing	29/3/2021

Details	Trial No.			Average
	1	2	3	
Total weight of aggregate sample fillinbg the cylindrical measure = W_1 g	371	373	370	
Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	77	85	
Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	288	296	285	
Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.32	20.64	22.97	21.99 %

Remarks:

: Maximum allowable Aggregate Impact value for Bituminous Macadam is 30%

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

DETERMINATION OF RATE OF SPREAD TACK COAT

CLIENT	:	**Bruhath Bengaluru Mahanagara Palike.**
AGENCY	:	**NCC Limited**
NAME OF THE WORK	:	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
LOCATION	:	Chandra Cafe To Kanthi Sweets Ch 0 To 800
DATE OF TESTING	:	9/4/2021

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 x 0.45	0.45 x 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Intial Wt of empty Plate (b)	Kg	1.635	1.629
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.687	1.681
Weight of Prime/Tack Coat (d=c-b)	Kg	0.056	0.052
Rate of spread of prime /tack coat	kg/Sq.m	0.278	0.256
Avcrage	kg/Sq.m	0.266	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

BITUMEN EXTRACTION TEST REPORT

Location : Chandra cafe To Kanti sweets

DATE :- 1/4/2021

MATERIAL : BITUMINOUS MACADAM (BM) Ch:- 0 To 800

Sl.No	DISCRIPTION	UNIT	sample -1	sample -2	sample -3	Remarks
1	Weight of Mixture before test (Bowl+bitumien) =A	gms	500	500	500	
2	Weight of Mixture after test (Bowl+bitumien)= B	gms	481	480.8	479.1	
3	Weight of bitumin Extracted ,gm (A-B)/A*100= B	gms	19	19.20	20.9	
4	Bitumen content in %		3.80%	3.84%	4.2%	
	Average		3.94%			

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

BITUMEN EXTRACTION TEST REPORT

Location : Chandra Cafe To Kanti Sweets Ch/ 0 To 800

MATERIAL : BITUMINOUS MACADAM (BM)

DATE : 1/4/2021

Sl.No	DISCRIPTION	UNIT	sample -1	sample -2	sample -3	Remarks
1	Weight of Mixture before test (Bowl+bitumien) =A	gms	500	500	500	
2	Weight of Mixture after test (Bowl+bitumien)= B	gms	481.25	482	483	
3	Weight of bitumin Extracted ,gm (A-B)/A*100= B	gms	18.75	18	17	
4	Bitumen content in %		3.75%	3.60%	3.40%	
	Average		3.58%.			

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TEST REPORT

Aggregate Gradation Test
IS : 2386 Part I

Client	Brihath Bengaluru Mahanagara Palike,
Agency	NCC Limited
Name of Work	[illegible]
Reference	IS : 2386 Part I
Location	Chandra Layout To Bond Streets,
Type of Mix	Bituminous Macadam Ch: 0 To 200
Date of Testing	24/2/2021

Total Weight of Samples: 10601 gm.

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
26.50	0	0	0	100	100	Gradation satisfies Grade II MORTH specification
19.00	612	5.77	5.77	94.23	90 - 100	
13.20	2432	22.72	28.49	71.51	56 - 77	
4.75	4064	40.12	68.61	31.39	16 - 36	
2.36	632	5.96	74.57	25.43	4 - 16	
0.300	965	9.10	83.67	16.33	2 - 10	
0.075	463	4.37	88.04	11.96	0 - 8	

Total Weight of Samples: 8942 gm.

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
26.50	0	0	0	100	100	Gradation satisfies Grade II MORTH specification
19.00	477	5.33	5.33	94.67	90 - 100	
13.20	2790	31.20	36.53	63.47	56 - 77	
4.75	3643	40.73	77.26	22.74	16 - 36	
2.36	760	8.50	85.76	14.24	4 - 16	
0.300	573	6.40	92.16	7.84	2 - 10	
0.075	291	3.25	95.41	4.59	0 - 8	

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX

IS 2386(Part 1)

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of Work	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Bituminous Macadam
Date of Testing	27/3/2021
Location	Chandra Cafe To Kanti Sweets

Result : Flakiness Index = 12.18 %. Ch: 0 To 800

Elongation Index = 9.52 %.

Result : Combined Flakiness & Elongation index = 21.70 %.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Macadam is 35%

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

Specific Gravity And Water Absorption Test

IS: 2386 Part III

ent	Bruhath Bengaluru Mahanagara Palike.
ency	NCC Limited
me of Wok	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
cation	Chandra Cafe To Kanti Sweets Ch 0 To 200
pe of Mix	Bituminous Macadam
te of Testing	27/3/2024

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2018	2020	2022	
2	Weight of basket suspended in water	W_2 g	752	752	752	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1266	1268	1270	
4	Weight of saturated surface dry aggregate in air	W_3 g	2011	2014	2015	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	745	746	745	
6	Weight of oven dried aggregate	W_4 g	2000	2002	2004	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.684	2.683	2.689	2.685
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.724	2.727	2.730	2.727
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.55	0.60	0.54	0.56

ents:

ximum allowable Aggregate Water absorption value for Bituminous Macadam is 2.0%

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PPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
BANGALORE CITY

Agregate Impact Value
IS: 2386 Part IV

	Bruhath Bengalure Mahanagara Palike.
&	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
	Chandra cafe To Kanti sweets
	Bituminous Macadam Ch: 0 To 800
g	27/3/2024

Details	Trial No.			Average
	1	2	3	
eight of aggregate sample fillinbg the tal measure = W_1 g	358	366	362	
of agregate passing 2.36 mm sieve after the $_2$ g	72	68	65	
of aggregate retained 2.36 mm sieve after = W_3 g	277	282	274	
te Impact value = percent fines $/W_1)$%	20.11	18.57	17.95	18.87.1

: Maximum allowable Aggregate Impact value for Bituminous Macadam is 30%

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

ent	:	**Bruhath Bengaluru Mahanagara Palike.**
me of Work	:	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
ation	:	Chandra Cafe To Kanti sweets
ce of location	:	plant Ch 0 To 800
of testing	:	27/3/2021

sults of the tests conducted on the bitumen sample using for Bituminous Macadam

	Description	Test Result	Requirement as per IS:73:2013
	Penetration at 25 °C, 1/10 mm	67	60 to 70
	Softening point, °C	43	Min. 40
	Ductility at 27°C, cm	100>	Min. 75
	Flash Point, °C	251	Min. 220

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WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION

TEST REPORT

DETERMINATION OF RATE OF SPREAD TACK COAT

IENT	:	**Bruhath Bengaluru Mahanagara Palike.**
ENCY	:	**NCC Limited**
ME OF THE WORK	:	WHITE TOPPING YELAHANKA FROM SHESHADRIPURAM FIRST GRADE COLLEGE TO AROMA BAKERY JUNCTION
CATION	:	Chandra Cake To Kanti sweets
TE OF TESTING	:	2/4/2024 Cht 0 To 800

Determination	Unit	Test No	
		1	2
of Plate (mxm)	mt	0.45X0.45	0.45X0.45
of Plate (a)	Sq.m	0.2025	0.2025
Wt of empty Plate (b)	Kg	1.627	1.630
weight of plate after application of /Tack Coat (c)	Kg	1.681	1.686
t of Prime/Tack Coat (d=c-b)	Kg	0.054	0.056
f spread of prime /tack coat	kg/Sq.m	0.266	0.276
gc	kg/Sq.m	0.271	
ed Limit	kg/Sq.m	0.25 Kg/sq.m	

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WHITE TOPPING YELAHANKA FROM SHIVAKAROPURAM TYPE CRACK COLLECTOR TO ARCADA BAKERY [illegible]

TEST REPORT

DETERMINATION OF RATE OF SPREAD TACK COAT

CLIENT	:	Brihath Bengaluru Mahanagara Palike,
AGENCY	:	NCC Limited
NAME OF THE WORK	:	WHITE TOPPING YELAHANKA FROM SHIVAKAROPURAM TYPE CRACK COLLECTOR TO ARCADA BAKERY [illegible]
LOCATION	:	Orginal Coat To Kogilu Cross,
DATE OF TESTING	:	2/4/2024 Ok to Tack

Determination	Unit	Test No	
		1	2
ze of Plate (mxm)	mm	0.45x0.45	0.45x0.45
ea of Plate (a)	Sq.m	0.2025	0.2025
ial Wt of empty Plate (b)	Kg	1.627	1.630
al weight of plate after application of me /Tack Coat (c)	Kg	1.681	1.686
ght of Prime/Tack Coat (d=c-b)	Kg	0.054	0.056
of spread of prime / tack coat	kg/Sq.m	0.266	0.276
rage	kg/Sq.m	0.271	
ified Limit	kg/Sq.m	0.25Kg/sq.m	

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